

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-304243

(43)Date of publication of application : 01.11.1994

(51)Int.Cl.

A61L 31/00

(21)Application number : 05-116455

(71)Applicant : NIPPON ZEON CO LTD

(22)Date of filing : 20.04.1993

(72)Inventor : YAMAGUCHI KYOKO  
KINEBUCHI TATSUO  
MIYAHARA SUSUMU  
KAWABATA TAKASHI

## (54) MEDICAL DEVICE

## (57)Abstract:

PURPOSE: To maintain the lubricating action of the medical device which is coated with a lubricant through the simple treatment for a long time, by activating the resin surface of the medical equipment made of resin by the plasma treatment and coating the surface with the lubricant.

CONSTITUTION: After the resin surface of the medical device made of resin is activated by the plasma treatment, the surface is coated with lubricant. Since, as for the medical equipment made of resin, the coated lubricant does not slip off, the equipment can smoothly be inserted into a body, when used as the medical equipment inserted into the body, and the breakage of the tissue inside the body can be suppressed, when the equipment is used in insertion or in the staying in the body. Further, in the case where the medical equipment is a syringe for pouring the medical liquid used in the outside body circuit in a circulation system or the syringe for discharging the body liquid, the lubrication for the water-sealed slidable surface of the syringe acts even in the operation for a long time, and the necessity of replacing the syringe for lubrication is obviated, and the smooth operation is enabled.

## LEGAL STATUS

[Date of request for examination] 16.03.2000

[Date of sending the examiner's decision of rejection] 23.07.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision  
of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office